

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTAEXB1618

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

|      |    |        |                                                                                       |
|------|----|--------|---------------------------------------------------------------------------------------|
| NEWS | 1  |        | Web Page for STN Seminar Schedule - N. America                                        |
| NEWS | 2  | OCT 02 | CA/CAPplus enhanced with pre-1907 records from Chemisches Zentralblatt                |
| NEWS | 3  | OCT 19 | BEILSTEIN updated with new compounds                                                  |
| NEWS | 4  | NOV 15 | Derwent Indian patent publication number format enhanced                              |
| NEWS | 5  | NOV 19 | WPIX enhanced with XML display format                                                 |
| NEWS | 6  | NOV 30 | ICSD reloaded with enhancements                                                       |
| NEWS | 7  | DEC 04 | LINPADOCDB now available on STN                                                       |
| NEWS | 8  | DEC 14 | BEILSTEIN pricing structure to change                                                 |
| NEWS | 9  | DEC 17 | USPATOLD added to additional database clusters                                        |
| NEWS | 10 | DEC 17 | IMSDRUGCONF removed from database clusters and STN                                    |
| NEWS | 11 | DEC 17 | DGENE now includes more than 10 million sequences                                     |
| NEWS | 12 | DEC 17 | TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment                       |
| NEWS | 13 | DEC 17 | MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary                                |
| NEWS | 14 | DEC 17 | CA/CAPplus enhanced with new custom IPC display formats                               |
| NEWS | 15 | DEC 17 | STN Viewer enhanced with full-text patent content from USPATOLD                       |
| NEWS | 16 | JAN 02 | STN pricing information for 2008 now available                                        |
| NEWS | 17 | JAN 16 | CAS patent coverage enhanced to include exemplified prophetic substances              |
| NEWS | 18 | JAN 28 | USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats          |
| NEWS | 19 | JAN 28 | MARPAT searching enhanced                                                             |
| NEWS | 20 | JAN 28 | USGENE now provides USPTO sequence data within 3 days of publication                  |
| NEWS | 21 | JAN 28 | TOXCENTER enhanced with reloaded MEDLINE segment                                      |
| NEWS | 22 | JAN 28 | MEDLINE and LMEDLINE reloaded with enhancements                                       |
| NEWS | 23 | FEB 08 | STN Express, Version 8.3, now available                                               |
| NEWS | 24 | FEB 20 | PCI now available as a replacement to DPCI                                            |
| NEWS | 25 | FEB 25 | IFIREF reloaded with enhancements                                                     |
| NEWS | 26 | FEB 25 | IMSPRODUCT reloaded with enhancements                                                 |
| NEWS | 27 | FEB 29 | WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification |

NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

|            |                                                               |
|------------|---------------------------------------------------------------|
| NEWS HOURS | STN Operating Hours Plus Help Desk Availability               |
| NEWS LOGIN | Welcome Banner and News Items                                 |
| NEWS IPC8  | For general information regarding STN implementation of IPC 8 |

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 09:31:48 ON 11 MAR 2008

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'CAPLUS' ENTERED AT 09:32:02 ON 11 MAR 2008

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 11 Mar 2008 VOL 148 ISS 11

FILE LAST UPDATED: 10 Mar 2008 (20080310/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s bis(4-hydroxyaryl)alkane

MISSING OPERATOR 'BIS(4-HYDROXYA'

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s 4-hydroxyaryl

5812114 4

1737 HYDROXYARYL

2 HYDROXYARYLS

1738 HYDROXYARYL

(HYDROXYARYL OR HYDROXYARYLS)

L1 107 4-HYDROXYARYL

(4(W)HYDROXYARYL)

=> s adduct

86064 ADDUCT

68783 ADDUCTS

L2 124304 ADDUCT

(ADDUCT OR ADDUCTS)

=> s 11 and 12

L3 9 L1 AND L2

=> s phenol

259014 PHENOL  
125481 PHENOLS

L4 324247 PHENOL  
(PHENOL OR PHENOLS)

=> s l3 and l4

L5 8 L3 AND L4

=> d bib abs hitstr 1-8

L5 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2007:592329 CAPLUS

DN 147:10341

TI Methods for increasing the mean particle size of 2-hydrocarbyl-3,3-bis(hydroxyaryl)phthalimidines

IN Ganesan, Balakrishnan; Nadkarni, Pradeep Jeevaji

PA General Electric Company, USA

SO U.S. Pat. Appl. Publ., 15 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

|    | PATENT NO.                                                                                                                                                                                                                                                                                                                                                                                                                                | KIND | DATE     | APPLICATION NO. | DATE     |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------------|----------|
|    | -----                                                                                                                                                                                                                                                                                                                                                                                                                                     | ---- | -----    | -----           | -----    |
| PI | US 2007123712                                                                                                                                                                                                                                                                                                                                                                                                                             | A1   | 20070531 | US 2005-288912  | 20051129 |
|    | US 7329720                                                                                                                                                                                                                                                                                                                                                                                                                                | B2   | 20080212 |                 |          |
|    | WO 2007064623                                                                                                                                                                                                                                                                                                                                                                                                                             | A2   | 20070607 | WO 2006-US45506 | 20061128 |
|    | WO 2007064623                                                                                                                                                                                                                                                                                                                                                                                                                             | A3   | 20070726 |                 |          |
|    | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW |      |          |                 |          |
|    | RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA                                                                                                                                |      |          |                 |          |

PRAI US 2005-288912 A 20051129

OS MARPAT 147:10341

AB A method for increasing a mean particle size of a 2-hydrocarbyl-3,3-bis(hydroxyaryl)phthalimidine is provided. The method comprises forming a mixture comprising a feedstream of the 2-hydrocarbyl-3,3-bis(4-hydroxyaryl)phthalimidine, and a solvent composition comprising an organic solvent and water, wherein the organic solvent is capable of at least partially dissolving the 2-hydrocarbyl-3,3-bis(hydroxyaryl)phthalimidine and forming an adduct with the 2-hydrocarbyl-3,3-bis(hydroxyaryl)phthalimidine. Then the mixture is heated at a temperature and for a time effective to decompose the adduct and form a 2-hydrocarbyl-3,3-bis(hydroxyaryl)phthalimidine product having a mean particle size greater than 5  $\mu$ . The 2-hydrocarbyl-3,3-bis(hydroxyaryl)phthalimidines with increased particle size are useful for producing polymers.

RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2004:740283 CAPLUS  
 DN 141:245239  
 TI Process for recovering an adduct of a bis(4-hydroxyaryl)alkane and a phenolic compound  
 IN Patrascu, Emil; Frey, Johann-Wilhelm; Hagel, Manfred  
 PA Dow Global Technologies, Inc., USA; Dow Deutschland Inc.  
 SO PCT Int. Appl., 18 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

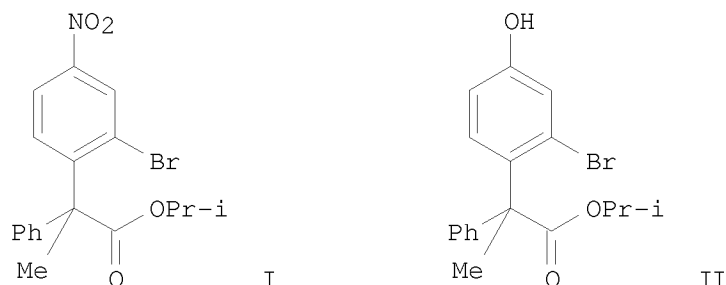
|      | PATENT NO.      | KIND | DATE     | APPLICATION NO.                                                                                                                                                                                                                                                | DATE     |
|------|-----------------|------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| PI   | WO 2004076394   | A1   | 20040910 | WO 2004-US1118                                                                                                                                                                                                                                                 | 20040116 |
|      | W:              |      |          | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI |          |
|      | RW:             |      |          | BW, GR, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG                                 |          |
|      | EP 1597224      | A1   | 20051123 | EP 2004-702992                                                                                                                                                                                                                                                 | 20040116 |
|      | R:              |      |          | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK                                                                                                                                     |          |
|      | CN 1753856      | A    | 20060329 | CN 2004-80004859                                                                                                                                                                                                                                               | 20040116 |
|      | JP 2006518377   | T    | 20060810 | JP 2006-502852                                                                                                                                                                                                                                                 | 20040116 |
|      | US 2006224025   | A1   | 20061005 | US 2005-541779                                                                                                                                                                                                                                                 | 20050711 |
|      | IN 2005CN01964  | A    | 20070727 | IN 2005-CN1964                                                                                                                                                                                                                                                 | 20050818 |
| PRAI | US 2003-448918P | P    | 20030221 |                                                                                                                                                                                                                                                                |          |
|      | WO 2004-US1118  | W    | 20040116 |                                                                                                                                                                                                                                                                |          |

AB A process for recovering a solid adduct of a bis(4-hydroxyaryl)alkane and a phenolic compound from a suspension comprising the adduct, comprises the steps of: (a) supplying the suspension to a rotary filter; (b) filtering the supplied suspension in the rotary filter to retain adduct as an adduct cake; (c) pre-drying the adduct cake with an inert gas; (d) washing the pre-dried adduct cake; (e) optionally drying the washed adduct cake; and (f) discharging the washed adduct cake from the rotary filter. Thus, a pure bis(4-hydroxyaryl)alkane is obtained through the adduct recovered when it is melted and the phenolic compound is distilled off.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2004:398398 CAPLUS  
 DN 141:156901  
 TI Oxidative nucleophilic substitution of hydrogen in nitrobenzenes with 2-phenylpropionic esters  
 AU Makosza, Mieczyslaw; Surowiec, Marek; Paszewski, Maciej  
 CS Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw, PL-01 224, Pol.  
 SO ARKIVOC (Gainesville, FL, United States) (2004), (2), 172-180  
 CODEN: AGFUAR  
 URL: <http://www.arkat-usa.org/ark/journal/2004/Zwanenburg/BZ-975E/975E.pdf>  
 PB Arkat USA Inc.  
 DT Journal; (online computer file)

LA English  
 OS CASREACT 141:156901  
 GI



AB Several alkyl 2-phenyl-2-(4-nitroaryl)propionates, e.g. I, and 2-phenyl-2-(4-hydroxyaryl)propionates, e.g. II, were prepared, in 66% and 73% yield, by oxidation of  $\sigma$ H adducts with  $\text{KMnO}_4$  and dimethyldioxirane, which were generated in situ from alkyl 2-phenylpropionates, e.g. iso-Pr 2-phenylpropanoate and nitroarenes, e.g. 3-bromonitrobenzene.

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2001:449831 CAPLUS

DN 135:46601

TI Separation of bis(4-hydroxyaryl)alkanes and aromatic hydroxy compounds from bis(4-hydroxyaryl)alkane/hydroxyarene adducts in a desorber.

IN Neumann, Rainer; Heydenreich, Frieder; Prein, Michael; Lanze, Rolf; Boediger, Michael

PA Bayer A.-G., Germany

SO Ger. Offen., 6 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

|    | PATENT NO.    | KIND                                                                                                                                                                                                                                                                                                                                       | DATE     | APPLICATION NO.  | DATE     |
|----|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------|----------|
| PI | DE 19961566   | A1                                                                                                                                                                                                                                                                                                                                         | 20010621 | DE 1999-19961566 | 19991220 |
|    | WO 2001046104 | A1                                                                                                                                                                                                                                                                                                                                         | 20010628 | WO 2000-EP12324  | 20001207 |
|    | W:            | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW |          |                  |          |
|    | RW:           | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG                                                                                                                                                     |          |                  |          |
|    | BR 2000016494 | A                                                                                                                                                                                                                                                                                                                                          | 20020917 | BR 2000-16494    | 20001207 |
|    | EP 1242349    | A1                                                                                                                                                                                                                                                                                                                                         | 20020925 | EP 2000-991585   | 20001207 |
|    | R:            | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR                                                                                                                                                                                                                                     |          |                  |          |
|    | JP 2003518048 | T                                                                                                                                                                                                                                                                                                                                          | 20030603 | JP 2001-546618   | 20001207 |

|      |                                                                                |    |          |                  |          |
|------|--------------------------------------------------------------------------------|----|----------|------------------|----------|
|      | TW 526190                                                                      | B  | 20030401 | TW 2000-89127151 | 20001219 |
|      | IN 2002MN00705                                                                 | A  | 20040228 | IN 2002-MN705    | 20020530 |
|      | US 2002183562                                                                  | A1 | 20021205 | US 2002-149906   | 20020617 |
|      | US 6919487                                                                     | B2 | 20050719 |                  |          |
|      | MX 2002PA06090                                                                 | A  | 20030128 | MX 2002-PA6090   | 20020619 |
|      | KR 786460                                                                      | B1 | 20071217 | KR 2002-707867   | 20020619 |
|      | KR 2007110447                                                                  | A  | 20071116 | KR 2007-723912   | 20071018 |
| PRAI | DE 1999-19961566                                                               | A  | 19991220 |                  |          |
|      | WO 2000-EP12324                                                                | W  | 20001207 |                  |          |
|      | KR 2002-707867                                                                 | A3 | 20020619 |                  |          |
| AB   | Use of a desorber optionally in series with a distillation unit for separation |    |          |                  |          |
| of   |                                                                                |    |          |                  |          |

bis(4-hydroxyaryl)alkanes [specifically 2,2-bis(4-hydroxyphenyl)propane, BPA] and aromatic hydroxy compds. from bis(4-hydroxyaryl)alkane/arylhydroxy adducts is claimed. Desorption is carried out in a desorber consisting of tube-bundle heat exchangers; interstices between the heat exchanger pipes are filled with ceramic balls (steatite). An inert gas (N2 or O2) is fed through the desorber at a flow of 100-300 m3 per m3 BPA/PhOH adducts at 160-230°. BPA is recovered as bottom product in the desorber and collected in a withdrawal tank. Separation of BPA from BPA/PhOH adducts gave BPA in a purity of >99.5% with PhOH content of <50 ppm.

L5 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2001:449826 CAPLUS  
 DN 135:46600  
 TI separation and purification of bis(4-hydroxyaryl  
 )alkanes using a vacuum drum filter  
 IN Neumann, Rainer; Lanze, Rolf; Heydenreich, Friedrich; Boediger, Michael;  
 Prein, Michael  
 PA Bayer A.-G., Germany  
 SO Ger. Offen., 6 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

|    | PATENT NO.                                                                                                                                                                                                                                                                                                                                    | KIND | DATE     | APPLICATION NO.  | DATE     |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------------------|----------|
|    | -----                                                                                                                                                                                                                                                                                                                                         | ---- | -----    | -----            | -----    |
| PI | DE 19961521                                                                                                                                                                                                                                                                                                                                   | A1   | 20010621 | DE 1999-19961521 | 19991220 |
|    | WO 2001046105                                                                                                                                                                                                                                                                                                                                 | A1   | 20010628 | WO 2000-EP12323  | 20001207 |
|    | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW |      |          |                  |          |
|    | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG                                                                                                                                                    |      |          |                  |          |
|    | BR 2000016505                                                                                                                                                                                                                                                                                                                                 | A    | 20020827 | BR 2000-16505    | 20001207 |
|    | EP 1242350                                                                                                                                                                                                                                                                                                                                    | A1   | 20020925 | EP 2000-990667   | 20001207 |
|    | EP 1242350                                                                                                                                                                                                                                                                                                                                    | B1   | 20040331 |                  |          |
|    | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR                                                                                                                                                                                                                                     |      |          |                  |          |
|    | JP 2003518049                                                                                                                                                                                                                                                                                                                                 | T    | 20030603 | JP 2001-546619   | 20001207 |
|    | ES 2218277                                                                                                                                                                                                                                                                                                                                    | T3   | 20041116 | ES 2000-990667   | 20001207 |
|    | TW 568901                                                                                                                                                                                                                                                                                                                                     | B    | 20040101 | TW 2000-89127150 | 20001219 |
|    | IN 2002MN00733                                                                                                                                                                                                                                                                                                                                | A    | 20040313 | IN 2002-MN733    | 20020605 |
|    | MX 2002PA06089                                                                                                                                                                                                                                                                                                                                | A    | 20030128 | MX 2002-PA6089   | 20020619 |
|    | US 2003038094                                                                                                                                                                                                                                                                                                                                 | A1   | 20030227 | US 2002-149905   | 20020905 |

US 6906227 B2 20050614  
 HK 1054920 A1 20060106 HK 2003-107259 20031009  
 PRAI DE 1999-19961521 A 19991220  
 WO 2000-EP12323 W 20001207  
 AB Adducts of bis(4-hydroxyaryl)alkanes (prepared  
 by acid-catalyzed reaction of aromatic hydroxy compds. with ketones) with  
 hydroxyarenes are separated and purified by continuous filtration in a  
 rotating vacuum drum filter. The drum filter contains filter cells  
 including a suction zone, a washing zone, a dry suction zone, an aeration  
 zone, and optionally a filter cake withdrawal zone and a cloth filter  
 washing zone. The crystals (filter cake) are separated in an amount of 800  
 kg/h

and washed in the washing zone with 50-150% PhOH (filter cake basis) at  
 45-70°. Process conditions (e.g. drum speed, filter cake  
 thickness, circulation N2) are set so that the residual moisture content  
 of the filter cake is <30%. Purified adduct crystals are melted  
 on a heating spiral and collected in collecting tanks. Purification of  
 2,2-bis(4-hydroxyphenyl)propane (BPA) according to the process gave BPA  
 crystals in a purity of >99% and with PhOH content of <50 ppm.

L5 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2000:254116 CAPLUS  
 DN 132:280883  
 TI Manufacture of bis(4-hydroxyaryl)alkanes  
 IN Kuehling, Steffen; Lanze, Rolf; Neumann, Rainer; Heydenreich, Frieder; Van  
 Osselaer, Tony  
 PA Bayer A.-G., Germany  
 SO Ger. Offen., 4 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

|      | PATENT NO.                                                          | KIND | DATE     | APPLICATION NO.  | DATE     |
|------|---------------------------------------------------------------------|------|----------|------------------|----------|
| PI   | DE 19848026                                                         | A1   | 20000420 | DE 1998-19848026 | 19981017 |
|      | TW 517046                                                           | B    | 20030111 | TW 1999-88116896 | 19991001 |
|      | WO 2000023410                                                       | A1   | 20000427 | WO 1999-EP7358   | 19991005 |
|      | W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,  |      |          |                  |          |
|      | CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,     |      |          |                  |          |
|      | IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD,     |      |          |                  |          |
|      | MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,     |      |          |                  |          |
|      | SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW              |      |          |                  |          |
|      | RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, |      |          |                  |          |
|      | DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,     |      |          |                  |          |
|      | CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG                      |      |          |                  |          |
|      | AU 9960893                                                          | A    | 20000508 | AU 1999-60893    | 19991005 |
|      | BR 9914607                                                          | A    | 20010703 | BR 1999-14607    | 19991005 |
|      | EP 1121339                                                          | A1   | 20010808 | EP 1999-947458   | 19991005 |
|      | EP 1121339                                                          | B1   | 20030129 |                  |          |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  |      |          |                  |          |
|      | IE, SI, LT, LV, FI, RO                                              |      |          |                  |          |
|      | MD 2001000161                                                       | A    | 20010930 | MD 2001-20010161 | 19991005 |
|      | MD 2705                                                             | B2   | 20050228 |                  |          |
|      | JP 2002527497                                                       | T    | 20020827 | JP 2000-577138   | 19991005 |
|      | ES 2190253                                                          | T3   | 20030716 | ES 1999-947458   | 19991005 |
|      | MX 2001PA03769                                                      | A    | 20010731 | MX 2001-PA3769   | 20010411 |
|      | US 6384288                                                          | B1   | 20020507 | US 2001-807645   | 20010416 |
|      | US 2002055661                                                       | A1   | 20020509 | US 2002-37995    | 20020103 |
| PRAI | DE 1998-19848026                                                    | A    | 19981017 |                  |          |
|      | WO 1999-EP7358                                                      | W    | 19991005 |                  |          |
|      | US 2001-807645                                                      | A3   | 20010416 |                  |          |

AB Bis(4-hydroxyaryl)alkanes are separated from their adducts with aromatic OH compds. by (a) passing an inert gas through molten adducts and stripping the phenols at 150-230°, (b) removing the stripped phenols from the inert gas by condensation, and (c) purifying, compressing and recirculating the inert gas into the step (a). Thus, bisphenol A with Hazen color number 8 was obtained by use of N for removing PhOH from a molten 60/40% bisphenol A/PhOH mixture as described above.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2000:115788 CAPLUS

DN 132:166709

TI Recovery of bis(4-hydroxyaryl)alkanes with increased purity from their adducts with phenols

IN Kuehling, Steffen; Lanze, Rolf; Neumann, Rainer; Heydenreich, Frieder; Van Osselaer, Tony; Fennhoff, Gerhard

PA Bayer A.-G., Germany

SO Ger., 4 pp.

CODEN: GWXXAW

DT Patent

LA German

FAN.CNT 1

|      | PATENT NO.                                                                                                                                                                                                                                                                                                            | KIND | DATE     | APPLICATION NO.  | DATE     |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------------------|----------|
| PI   | DE 19840110                                                                                                                                                                                                                                                                                                           | C1   | 20000217 | DE 1998-19840110 | 19980903 |
|      | WO 2000014044                                                                                                                                                                                                                                                                                                         | A1   | 20000316 | WO 1999-EP6146   | 19990823 |
|      | W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW |      |          |                  |          |
|      | RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG                                                                                                                                        |      |          |                  |          |
|      | AU 9958540                                                                                                                                                                                                                                                                                                            | A    | 20000327 | AU 1999-58540    | 19990823 |
|      | BR 9913415                                                                                                                                                                                                                                                                                                            | A    | 20010522 | BR 1999-13415    | 19990823 |
|      | EP 1109769                                                                                                                                                                                                                                                                                                            | A1   | 20010627 | EP 1999-946008   | 19990823 |
|      | EP 1109769                                                                                                                                                                                                                                                                                                            | B1   | 20020703 |                  |          |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO                                                                                                                                                                                                                             |      |          |                  |          |
|      | JP 2002524434                                                                                                                                                                                                                                                                                                         | T    | 20020806 | JP 2000-568804   | 19990823 |
|      | ES 2179674                                                                                                                                                                                                                                                                                                            | T3   | 20030116 | ES 1999-946008   | 19990823 |
|      | CN 1121367                                                                                                                                                                                                                                                                                                            | B    | 20030917 | CN 1999-810099   | 19990823 |
|      | RU 2213723                                                                                                                                                                                                                                                                                                            | C2   | 20031010 | RU 2001-108542   | 19990823 |
|      | TW 577869                                                                                                                                                                                                                                                                                                             | B    | 20040301 | TW 1999-88115078 | 19990902 |
|      | US 6316678                                                                                                                                                                                                                                                                                                            | B1   | 20011113 | US 2001-786146   | 20010228 |
|      | MX 2001PA02298                                                                                                                                                                                                                                                                                                        | A    | 20011001 | MX 2001-PA2298   | 20010302 |
| PRAI | DE 1998-19840110                                                                                                                                                                                                                                                                                                      | A    | 19980903 |                  |          |
|      | WO 1999-EP6146                                                                                                                                                                                                                                                                                                        | W    | 19990823 |                  |          |

AB Bis(4-hydroxyaryl)alkanes with increased purity and reduced purity variation are manufactured from their adducts with aromatic hydroxy compds. which are prepared by acid-catalyzed conversion of the aromatic hydroxy compds. with ketones. The crystalline adducts are treated with aerosol dispersions of aqueous alkali metal hydroxide solns. with variable concentration (0.005-0.015%), and then separated from phenols by distillation. Thus, treating continuously crystalline bisphenol A/PhOH adduct with aerosol dispersion of aqueous NaOH solution via gas phase while monitoring (GC) the amount of impurities (isopropenylphenol, isopropenylphenol dimer and trisphenol) and increasing the NaOH concentration in the aerosol when the



total impurity concentration exceeded 100 ppm, gave bisphenol A of higher purity

and reduced the purity variation.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1964:68008 CAPLUS

DN 60:68008

OREF 60:11943f-h,11944a

TI 2,2-Bis(4-hydroxyaryl)propanes

IN Benedict, Louis; Apel, Francis N.

PA Union Carbide Corp.

SO 5 pp.

DT Patent

LA Unavailable

FAN.CNT 1

|    | PATENT NO. | KIND | DATE     | APPLICATION NO. | DATE     |
|----|------------|------|----------|-----------------|----------|
|    | -----      | ---- | -----    | -----           | -----    |
| PI | DE 1161284 |      | 19640116 | DE 1961-U7974   | 19610428 |
|    | GB 974982  |      |          | GB              |          |

PRAI US 19600506

AB Title compds. were prepared by the reaction of 1 mole of allene, propyne, or mixts. thereof with 3-20 moles of an appropriate phenol having a sterically unhindered, reactive para H atom, at 30-125° (preferably 55-60° in the presence of an insol., strongly acid cation exchange resin containing 0.01-0.5, especially 0.175, acid equivalent/mole of phenol, such as a sulfonated styrene-divinylbenzene copolymer or a phenol-formaldehyde sulfonic acid resin), under nearly water-free conditions. Thus, a stirred mixture of 564 g. molten phenol and 250 g. (0.875 acid equivalent) Dowex 50 W cation exchange resin, dried to a water-content of <2%, was heated to 50°, 40 g. of a 70:30% mixture of propyne:allene added over 3.5 hrs. through a gas-inlet tube placed below the surface of the liquid, the mixture filtered, the filter cake washed with 250 cc. molten phenol, the filtrate and the filter cake washed with 250 cc. molten phenol, and the filtrate and washings combined and distilled at 1 mm. to a final residue temperature of 200° to yield 183 g. crude 2,2-bis(4-hydroxyphenyl)propane (I) in the residue. The crude product was purified by heating it with >1:1 ratio of phenol:crude product at 37-95°. The by-products and a small amount of I are soluble, while most of I forms a crystalline 1:1 adduct with phenol. The adduct was filtered off or centrifuged, washed with phenol, then heated to remove the phenol, which was recycled to the reaction vessel, as were the filtrate and washings containing by-products, and unreacted olefins. The residue consisted of very pure I. Because an equilibrium between I and by-products of the reaction occurred and remained constant under constant reaction conditions, no accumulation of by-products took place, and the process displayed an efficiency of >99%. Other examples showed effect of reaction variables on yield, however, the above example detailed reflected optimum conditions.

=>